

**CRYSTALLIZATION AND STRUCTURE DETERMINATION OF  
GLYCOSYLATED HUMAN BETA SECRETASE, AN ENZYME  
IMPLICATED IN ALZHEIMER'S DISEASE**

**ABSTRACT**

An inhibitor bound form of human beta secretase, also known as memapsin 2 and BACE, particularly in a glycosylated form as expressed in Chinese hamster ovary (CHO), HEK293 cells, or in insect cells as part of a Baculovirus expression system has been crystallized, and the three dimensional x-ray crystal structure has been solved to 3.2 Å resolution. The x-ray crystal structure is useful for solving the structure of other molecules or molecular complexes, and designing inhibitors of human beta secretase activity.

"EXPRESS MAIL" MAILING LABEL NUMBER EL 776902534 US

DATE OF DEPOSIT: March 14, 2001  
I HEREBY CERTIFY THAT THIS PAPER OR FEE IS BEING DEPOSITED WITH THE  
UNITED STATES POSTAL SERVICE "EXPRESS MAIL POST OFFICE TO ADDRESS"  
SERVICE UNDER 37 CFR 1.10 ON THE DATE INDICATED ABOVE AND IS ATTACHED TO  
THE ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

PRINTED NAME

SIGNATURE

Kimberly A. Hayes

Kimberly A. Hayes